

BOOK NOTICES

RAY F. EVERT WITH CONTRIBUTIONS BY SUSAN E. EICHHORN. 2006. **Esau's Plant Anatomy: Meristems, Cells, and Tissues of the Plant Body: Their Structure, Function, and Development, 3rd Edition.** (ISBN 978-0-471-73843-5, hbk). John Wiley & Sons Inc., One Wiley Drive, Somerset, NJ 08875, U.S.A. (**Orders:** www.wiley.com, 877-762-2974, 1-800-597-3299 fax). \$159.95, 624 pp., b/w photos, line drawings, 8¼" × 11¼".

This is a complete redo of Esau's second edition, which is hardly recognizable except for the general organization of the chapters. The last few chapters of edition 2 (Stem, Leaf, Root, Flower, Fruit, Seed) are gone, having been integrated into earlier discussion or in part probably relegated to treatments of plant "morphology." The format is modern and easily readable—with excellent illustrations. "A major goal of this book is to provide a firm foundation in the meristems, cells, and tissues of the plant body, while at the same time noting some of the many advances being made in our understanding of their function and development through molecular research. ... [It has been] planned primarily for advanced students in various branches of plant science, for researchers (from molecular to whole plant), and for teachers of plant anatomy."

General References include: **1)** Structure and Development of the Plant Body—An Overview. **2)** The Protoplast: Plasma Membrane, Nucleus, and Cytoplasmic Organelles. **3)** The Protoplast: Endomembrane System, Secretory Pathways, Cytoskeleton, and Stored Compounds. **4)** Cell Wall. **5)** Meristems and Differentiation. **6)** Apical Meristems. **7)** Parenchyma and Collenchyma. **8)** Sclerenchyma. **9)** Epidermis. **10)** Xylem: Cell Types and Developmental Aspects. **11)** Xylem: Secondary Xylem and Variations in Wood Structure. **12)** Vascular Cambium. **13)** Phloem: Cell Types and Developmental Aspects. **14)** Phloem: Secondary Phloem and Variations in Its Structure. **15)** Periderm. **16)** External Secretory Structures. **17)** Internal Secretory Structures. Addendum: other pertinent references not cited in the text. Glossary; Author Index; Subject Index.

It's remarkable to see a new text for plant anatomy, as several recent publications have risen and relatively quickly gone out of press. But in addition to Esau's classics and Evert's revision, those below are apparently now available.

Dickison, W.C. 2000. *Integrative plant anatomy*. Harcourt/Academic Press. (hardback)

Fahn, A. 1990. *Plant Anatomy* (ed. 4). (587 pages) Pergamon Press, Oxford. (used paperback on Amazon)

Mauseth, J.D. 1988. *Plant Anatomy*. (560 pages). Benjamin/Cummings. Menlo Park, California. (paperback on Amazon.com)

—Guy Nesom, Botanical Research Institute of Texas, 509 Pecan Street, Fort Worth, TX 76102-4060, U.S.A.

DAVID AND SHIRLEY BASSETT. 2007. **Delphiniums.** (ISBN 978-0-88192-800-6, hbk.). Timber Press Inc., The Haseltine Building, 133 SW Second Avenue, Suite 450, Portland, OR 97204-3527, U.S.A. (**Orders:** www.timberpress.com, 503-227-2878, 503-227-3070 fax, 1-800-327-5680). \$29.95, 160 pp., 80 color photos, 7½" × 9¾".

This is a beautifully done book about delphiniums (*Delphinium*) and larkspurs (*Consolida*), mostly from the perspective of their use as garden plants. *Delphinium* includes about 300 species (mostly perennial) primarily in the northern Hemisphere; *Consolida* includes about 40 species (mostly annual). The inherent native diversity along with several hundred years of intensive cultivation have provided a huge diversity in flower form and color (purple, blue, red, pink, white, yellow) and plant habit.

The book is divided into two parts: **1)** Knowing Delphiniums (Introducing D; A survey of wild D; D in cultivation; Breeding D). **2)** Growing Delphiniums (D in the Garden; Cultivation of D; D propagation; Growing D in containers; Pests and diseases; Hybridizing D; Growing species).—Guy Nesom, Botanical Research Institute of Texas, 509 Pecan Street, Fort Worth, TX 76102-4060, U.S.A.

PETER GOLDBLATT AND DALE E. JOHNSON (eds.). 2006. **Index to Plant Chromosome Numbers: 2001-2003.** (ISBN 978-1-930723-54-2, pbk.). Missouri Botanical Garden Press, P.O. Box 299, Saint Louis, MO 63166-0299, U.S.A. (**Orders:** www.mbgpress.org, orders@mbgpress.org, 314-577-9547, 314-577-9594 fax). \$40.00, 242 pp., 7" × 10".

The latest summary in this invaluable series of chromosome counts of naturally occurring and cultivated plants, taken from publications throughout the world. Counts for this volume were extracted from 238 serials. Reviewers are from the Missouri Botanical Garden, University of North Carolina, Hiroshima University, Komarov Botanical Institute, Royal Botanic Gardens (Kew), and the University of Istanbul. "Chromosome counts for bryophytes and vascular plants published in the IPCN (from 1975 onward) may be accessed through the Missouri Botanical Garden's w³TROPICOS at the Garden's website, www.mobot.org." The counts from 2001-2003 had not been posted to the online index, as of 15 June, 2007.—Guy Nesom, Botanical Research Institute of Texas, 509 Pecan Street, Fort Worth, TX 76102-4060, U.S.A.